

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name _____ Examiner # _____ Date: _____
 An Unit _____ Phone Number 30 _____ Serial Number _____
 Mail Box and Bldg Room Location _____ Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Point of Contact:
 Jan Delaval
 Librarian
 C12

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>AW</u>	NA Sequence (#) _____	STN _____
Searcher Phone # <u>4498</u>	AA Sequence (#) <u>2</u>	Dialog _____
Searcher Location _____	Structure (#) _____	Quetta (Orbit) _____
Date Searcher Reviewed <u>12/19</u>	Bibliographic _____	Web Links _____
Date Completed <u>12/19</u>	Litigation _____	Index Nexis _____
Searcher Prep & Review Time _____	Fulltext _____	Sequence Systems <input checked="" type="checkbox"/>
Client Prep Time <u>10</u>	Patent Family _____	WWW/Internet _____
Final Time <u>10</u>	Other _____	Other (specify) _____

[illegible][illegible]

JOURNAL	Submitted (03 MAR 2006) Institut B.G., Molecular Biology, Institute for Cancer Research, 74, avenue Hippocrate, 1200 - Bruxelles, BELGIUM
FEATURES	Location/Qualifiers
SOURCE	1..972 Genbank "BAC-Explicite" Accession "F086_006" Feature(1)=Thylocarcinoma cell line ATCC CRL1840 1..1844 Name "LAGE 2" Cl. 429 /gene="LAGE-2" /note="rare transcript" LAGE-2B with retained intron 2 (327-365) /codon_start=1 /product="hypothetical protein" /protein_id="CAI720884.1" /db_xref="GI:720884.1" //
gene	1..1844 Name "LAGE 2"
CDS	1..1844 Name "LAGE 2" /gene="LAGE-2" /note="rare transcript" LAGE-2B with retained intron 2 (327-365) /codon_start=1 /product="hypothetical protein" /protein_id="CAI720884.1" /db_xref="GI:720884.1" //
polyA_signal	GLNCCGCCGAPGSLLIEFYAMPATPMEAFAPSLADAPITIVPVILLERITY SGNLTMSVDQDRIKAGWGRHSAVSWTASATPPSSG
BASE COUNT	839 A 844 T polyA_signal
ORIGIN	167 d 259 c 290 g 157 t //gene "LAGE 2" //
Query 59-3	31 19 259 170 12 92 Length 972
Best local Similarity	99.5% Prod.No. 3.8e+90
Matches 220:	Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY	1 caacttccccatgaatgatacacacacacacactctctctcccaatttttttacctcagctt 60 DB
624	cacccttcgccttgatggatgtgatgaaacacacacacacacacacacacacacacacac 120 QY
67	ccctccatgtaaatgagcgctaacgctggcgctggcgctggcgctggcgctggcgctggcg 180 DB
684	ccctccacgac 240 QY
121	ctaagaatqatcccac 300 DB
744	ctaggcaatgctgccac 360 QY
181	qaagaagacagcttacatgcttttatctctatgaaaatttaa 221 DB
804	gaagacagac 281 QY
24	hsa275977 2610 bp DNA PRI 08 MAR 2006 Homo sapiens LAGE 2 gene for NY DSO LAGE 2a protein and alternative polyprotein LAGE 2A1, bases 1-2610 AJ275977 AJ275977.1 GI:7208849 CTP-defined antigenic peptide; LAGE 2 gene; LAGE 2a; LAGE 2b; human. ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo; 1 (bases 1 to 2610) pe Smot, C.C. Turkin, C.C. Lethe, K.K. Martelange, V. and Rom, T.T. DNA methylation is the primary silencing mechanism for a set of germ line- and tumor-specific genes with a CpG-rich promoter Mol. Cell. Biol. 19 (11), 7427-7335 (1999) 59454985 2 (bases 1 to 2630) Lethe, B.B. Direct Submission Submitted (03 MAR 2006) Institut B.G., Molecular Biology, Institute for Cancer Research, 74, avenue Hippocrate, 1200 - Bruxelles, BELGIUM Related sequence AC275978, hary LAGE 2 mRNA species retaining intron

Genforce version 4.5
Copyright (c) 1995-2000 Compugen Ltd.

oM nucleotide nucleotide search, using sw model

Run on: October 9, 2001, 14:51:10 ; Search time 112.99 seconds
(without alignments)

File: US-09_341-829A_4_copy_756_993
Perfect score: 248
Sequences: 1

Search parameters: 60,000, 800, 1322,600 Million cell updates/sec

Search results: 60,000, 800, 1322,600 Million cell updates/sec

Word size: 0

total number of hits satisfying chosen parameters: 146,002

Minimum hit seq length: 0
Maximum hit seq length: 299,999,999

Post processing: listing first 50 summaries

Database: Nucleotide

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000. 1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025. 1026. 1027. 1028. 1029. 1030. 1031. 1032. 1033. 1034. 1035. 1036. 1037. 1038. 1039. 1040. 1041. 1042. 1043. 1044. 1045. 1046. 1047. 1048. 1049. 1050. 1051. 1052. 1053. 1054. 1055. 1056. 1057. 1058. 1059. 1060. 1061. 1062. 1063. 1064. 1065. 1066. 1067. 1068. 1069. 1070. 1071. 1072. 1073. 1074. 1075. 1076. 1077. 1078. 1079. 1080. 1081. 1082. 1083. 1084. 1085. 1086. 1087. 1088. 1089. 1090. 1091. 1092. 1093. 1094. 1095. 1096. 1097. 1098. 1099. 1100. 1101. 1102. 1103. 1104. 1105. 1106. 1107. 1108. 1109. 1110. 1111. 1112. 1113. 1114. 1115. 1116. 1117. 1118. 1119. 1120. 1121. 1122. 1123. 1124. 1125. 1126. 1127. 1128. 1129. 1130. 1131. 1132. 1133. 1134. 1135. 1136. 1137. 1138. 1139. 1140. 1141. 1142. 1143. 1144. 1145. 1146. 1147. 1148. 1149. 1150. 1151. 1152. 1153. 1154. 1155. 1156. 1157. 1158. 1159. 1160. 1161. 1162. 1163. 1164. 1165. 1166. 1167. 1168. 1169. 1170. 1171. 1172. 1173. 1174. 1175. 1176. 1177. 1178. 1179. 1180. 1181. 1182. 1183. 1184. 1185. 1186. 1187. 1188. 1189. 1190. 1191. 1192. 1193. 1194. 1195. 1196. 1197. 1198. 1199. 1200. 1201. 1202. 1203. 1204. 1205. 1206. 1207. 1208. 1209. 1210. 1211. 1212. 1213. 1214. 1215. 1216. 1217. 1218. 1219. 1220. 1221. 1222. 1223. 1224. 1225. 1226. 1227. 1228. 1229. 1230. 1231. 1232. 1233. 1234. 1235. 1236. 1237. 1238. 1239. 1240. 1241. 1242. 1243. 1244. 1245. 1246. 1247. 1248. 1249. 1250. 1251. 1252. 1253. 1254. 1255. 1256. 1257. 1258. 1259. 1260. 1261. 1262. 1263. 1264. 1265. 1266. 1267. 1268. 1269. 1270. 1271. 1272. 1273. 1274. 1275. 1276. 1277. 1278. 1279. 1280. 1281. 1282. 1283. 1284. 1285. 1286. 1287. 1288. 1289. 1290. 1291. 1292. 1293. 1294. 1295. 1296. 1297. 1298. 1299. 1300. 1301. 1302. 1303. 1304. 1305. 1306. 1307. 1308. 1309. 1310. 1311. 1312. 1313. 1314. 1315. 1316. 1317. 1318. 1319. 1320. 1321. 1322. 1323. 1324. 1325. 1326. 1327. 1328. 1329. 1330. 1331. 1332. 1333. 1334. 1335. 1336. 1337. 1338. 1339. 1340. 1341. 1342. 1343. 1344. 1345. 1346. 1347. 1348. 1349. 1350. 1351. 1352. 1353. 1354. 1355. 1356. 1357. 1358. 1359. 1360. 1361. 1362. 1363. 1364. 1365. 1366. 1367. 1368. 1369. 1370. 1371. 1372. 1373. 1374. 1375. 1376. 1377. 1378. 1379. 1380. 1381. 1382. 1383. 1384. 1385. 1386. 1387. 1388. 1389. 1390. 1391. 1392. 1393. 1394. 1395. 1396. 1397. 1398. 1399. 1400. 1401. 1402. 1403. 1404. 1405. 1406. 1407. 1408. 1409. 1410. 1411. 1412. 1413. 1414. 1415. 1416. 1417. 1418. 1419. 1420. 1421. 1422. 1423. 1424. 1425. 1426. 1427. 1428. 1429. 1430. 1431. 1432. 1433. 1434. 1435. 1436. 1437. 1438. 1439. 1440. 1441. 1442. 1443. 1444. 1445. 1446. 1447. 1448. 1449. 1450. 1451. 1452. 1453. 1454. 1455. 1456. 1457. 1458. 1459. 1460. 1461. 1462. 1463. 1464. 1465. 1466. 1467. 1468. 1469. 1470. 1471. 1472. 1473. 1474. 1475. 1476. 1477. 1478. 1479. 1480. 1481. 1482. 1483. 1484. 1485. 1486. 1487. 1488. 1489. 1490. 1491. 1492. 1493. 1494. 1495. 1496. 1497. 1498. 1499. 1500. 1501. 1502. 1503. 1504. 1505. 1506. 1507. 1508. 1509. 1510. 1511. 1512. 1513. 1514. 1515. 1516. 1517. 1518. 1519. 1520. 1521. 1522. 1523. 1524. 1525. 1526. 1527. 1528. 1529. 1530. 1531. 1532. 1533. 1534. 1535. 1536. 1537. 1538. 1539. 1540. 1541. 1542. 1543. 1544. 1545. 1546. 1547. 1548. 1549. 1550. 1551. 1552. 1553. 1554. 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567. 1568. 1569. 1570. 1571. 1572. 1573. 1574. 1575. 1576. 1577. 1578. 1579. 1580. 1581. 1582. 1583. 1584. 1585. 1586. 1587. 1588. 1589. 1590. 1591. 1592. 1593. 1594. 1595. 1596. 1597. 1598. 1599. 1600. 1601. 1602. 1603. 1604. 1605. 1606. 1607. 1608. 1609. 1610. 1611. 1612. 1613. 1614. 1615. 1616. 1617. 1618. 1619. 1620. 1621. 1622. 1623. 1624. 1625. 1626. 1627. 1628. 1629. 1630. 1631. 1632. 1633. 1634. 1635. 1636. 1637. 1638. 1639. 1640. 1641. 1642. 1643. 1644. 1645. 1646. 1647. 1648. 1649. 1650. 1651. 1652. 1653. 1654. 1655. 1656. 1657. 1658. 1659. 1660. 1661. 1662. 1663. 1664. 1665. 1666. 1667. 1668. 1669. 1670. 1671. 1672. 1673. 1674. 1675. 1676. 1677. 1678. 1679. 1680. 1681. 1682. 1683. 1684. 1685. 1686. 1687. 1688. 1689. 1690. 1691. 1692. 1693. 1694. 1695. 1696. 1697. 1698. 1699. 1700. 1701. 1702. 1703. 1704. 1705. 1706. 1707. 1708. 1709. 1710. 1711. 1712. 1713. 1714. 1715. 1716. 1717. 1718. 1719. 1720. 1721. 1722. 1723. 1724. 1725. 1726. 1727. 1728. 1729. 1730. 1731. 1732. 1733. 1734. 1735. 1736. 1737. 1738. 1739. 1740. 1741. 1742. 1743. 1744. 1745. 1746. 1747. 1748. 1749. 1750. 1751. 1752. 1753. 1754. 1755. 1756. 1757. 1758. 1759. 1760. 1761. 1762. 1763. 1764. 1765. 1766. 1767. 1768. 1769. 1770. 1771. 1772. 1773. 1774. 1775. 1776. 1777. 1778. 1779. 1780. 1781. 1782. 1783. 1784. 1785. 1786. 1787. 1788. 1789. 1790. 1791. 1792. 1793. 1794. 1795. 1796. 1797. 1798. 1799. 1800. 1801. 1802. 1803. 1804. 1805. 1806. 1807. 1808. 1809. 1810. 1811. 1812. 1813. 1814. 1815. 1816. 1817. 1818. 1819. 1820. 1821. 1822. 1823. 1824. 1825. 1826. 1827. 1828. 1829. 1830. 1831. 1832. 1833. 1834. 1835. 1836. 1837. 1838. 1839. 1840. 1841. 1842. 1843. 1844. 1845. 1846. 1847. 1848. 1849. 1850. 1851. 1852. 1853. 1854. 1855. 1856. 1857. 1858. 1859. 1860. 1861. 1862. 1863. 1864. 1865. 1866. 1867. 1868. 1869. 1870. 1871. 1872. 1873. 1874. 1875. 1876. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 211

XX

(C) JUL 1986.

XX

P0

FF

PF

JF

JJ

JT

PP

PT

TT

TP

TU

UU

VV

VP

VT

TV

UP

UX

XP

XU

YX

YP

YT

YY

ZZ

ZP

ZT

ZZ

New isolated LAGE-1 tumour associated nucleic acids used to develop products for the diagnosis and treatment of LAGE-1 associated disorders, particularly tumours

Example 1; Page 49; 7pp; English.

The present sequence represents LAGE-1 clone 1 from the present invention which describes LAGE-1 tumour associated protein (IAP). The present invention also describes:

- (1) a method for treating a subject with a disorder characterised by expression of a LAGE-1 nucleic acid molecule or an expression product, comprising administering to the subject autologous cytolytic T cells to ameliorate the disorder, where the cytolytic T cells are specific for complexes of an HLA molecule and a LAGE-1 IAP or an immunogenic fragment;
- (2) a method for treating a subject with a disorder characterised by expression of a LAGE-1 nucleic acid molecule or an expression product comprising administering a LAGE-1 IAP or an immunogenie fragment to ameliorate the disorder;
- (3) a method for selectively enriching a population of T cells with cytolitic T cells specific for a LAGE-1 IAP comprising contacting an isolated population of T cells with an agent presenting a complex of a LAGE-IAP or an immunogenic fragment and a HLA presenting molecule to selectively enrich the isolated population of T cells with the cytotoxic T cells. The methods and products from the present invention can be used for the diagnosis and treatment of LAGE-1 associated disorders, particularly tumours.

Sequence Z17 BP; 48 A; 72 C; 53 D; 44 E; 0 other.

| Query Match | 10.1% | Score 24 | 144.14 | Length 217 |
|-----------------------|-------------|------------------|----------|------------|
| Best Local Similarity | 100.00% | Prod. No. 0.0044 | | |
| Matches 24 | Conserved 0 | Mismatches 0 | Indels 0 | Gaps 0 |
| 0% | 1 | Conserved | 0 | Indels 24 |
| 0% | 104 | Conserved | 0 | Indels 217 |

| | |
|------------------------|--|
| FN | Woolfrazor, A.Z. |
| XX | XX |
| FD | 15 APR 1999. |
| XX | XX |
| P6 | 21 SEP 1998; 98W-QS19609. |
| PR | 08 OCT 1997; 97US-0061426. |
| XX | XX |
| PA | (USHS) US DEPT HEALTH & HUMAN SERVICES, |
| XX | Rosenburg SA, Ward RF; |
| XX | WPI, 1999-27725/24. |
| XX | XX |
| P1 | Cancer antigen NY ESOL/CAI-A |
| PS | Example 1; Page 42; 88pp; English. |
| XX | XX |
| CC | Primer ESOP5 and primer ESOP2 (See MAX0605) were used to PCR amplify total RNA from human ESU 10760 2 cDNA sequences obtained from total RNA extracted from tumor cell lines. Cancer peptides delivered from cAG5-4, portions of them and their variants (See AA956587) are useful as cancer vaccines that protect against cancer. The cancer peptides form part of, or are derived from, cancers such as primary or metastatic melanoma, thymoma, lymphoma, sarcoma, lung cancer, liver cancer, leukemia, uterine cancer, cervical cancer, bladder cancer, kidney cancer and adenocarcinomas such as breast, prostate, ovarian, pancreatic and thyroid cancers. |
| XX | XX |
| SQ | Sequence 22 bp; 5 A; 10 C; 4 G; 3 T; 0 other; |
| <hr/> | |
| Query Match: | 9.2%; Score 27; Identities 100.0% |
| Best Local Similarity: | 100.0%; Pval: No. 0.049; |
| Kalches: | 22; Conservative 0; Mismatches 0; Indels 0; Gap |
| <hr/> | |
| QY | 174 tatcagctgggaggaacatt 195

22 tcttcgtcgatgagagagctt 1 |
| D6 | |
| <hr/> | |
| RESULT 15 | |
| ID | AA00156/c |
| AC | AA00156 standard; DNA; 21 bp. |
| XX | AA00156; |
| DT | 31 JUL 2000 (first entry) |
| XX | XX |
| DE | Reverse PCR primer RZ, for construction of pCR494 gene 1. |
| XX | XX |
| CM | CAMEL cell necrotized Antigen on MELANOMA cytotoxic lymphocyte |
| KW | tumor associated antigens; LAMP 1; NY ESOP2 and ESOP5; melanoma, |
| KW | cancer; immunotherapy; immune response; PCR primers; SS. |
| XX | XX |
| OS | Homo sapiens. |
| XX | XX |
| WP | W230323584-A1. |
| FD | 27 APR 2000. |
| XX | XX |
| P1 | 15 OCT 1999; 99B-EPO7682. |
| XX | XX |
| P6 | 16 OCT 1998; 98EP-111958X. |
| XX | XX |
| P5 | BETH ISRAEL DEACON DEPARTMENT (NY CHAD. |
| PA | (UNIV.) UNIV HOSPITAL BETHN. |
| XX | XX |
| P1 | Schrier PJ, Aronow CA, Heider K, Klader E; |
| DR | WPI, 2000-39985/29. |
| XX | XX |

P1 tumor-associated antigen useful for cancer immunotherapy; is encoded by
 P2 the open reading frame of LAGE-1 (a tumor-specific antigen) cDNA -
 XX
 PS Disclosure; Page 66; 73pp; English.
 CC The present DNA sequence is the reverse PCR primer R2, used along with
 CC forward PCR primer SP6P-PSV, to generate the deletion construct,
 CC pCR-464 of CAMEL cDNA clone 488.
 CC The tumour-associated antigen, CAMEL (Cytotoxic T lymphocytes (CTL)
 CC recognised Antigen on MELANOMA) is encoded by the open reading frame
 CC (ORF)-1 of LAGE-1 gene, a tumour-specific antigen. It shows strong
 CC homology with NY-ESO-1, a tumour-specific antigen. The tumour-associated
 CC antigen displayed on melanoma cells is recognised by cytotoxic T
 CC lymphocytes. CAMEL is expressed in tumour cell lines, tumour tissues
 CC (e.g. breast and lung) and in restricted number of healthy tissues. It
 CC has anticancer activity. CAMEL tumour antigen and immunogenic peptides
 CC derived from it are useful for cancer immunotherapy. They have the
 CC potential to induce an immune response, by eliciting a CTL response. The
 CC DNA molecule is used for construction of recombinant or fusion proteins.
 XX
 SQ Sequence 21 BP; 6 A; 7 C; 4 G; 4 T; 0 other;
 Query Match: 9.8%; Score 21; BB 21; length 21;
 Best Local Similarity: 100.0%; Prod. No. 0.16;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 UY 13 ttatgtatgatacaccacacatc 33
 Db 21 ttatgtatgatacaccacacatc 1
 RESULT 16
 AAV38568
 ID AAV38568 Standard; DNA; 42 BP.
 XX
 AC AAV38568;
 XX
 DI 17-SEP-1998 (first entry)
 DE PCR primer used to amplify DNA encoding a cancer associated antigen.
 XX
 KW Cancer associated antigen; NY-ESO-1; regression; progression; onset;
 KW cancer; treatment; diagnosis; PCR primer; ss.
 XX
 CS Synthetic.
 CS Homo sapiens.
 XX
 PN W09814464 AL.
 XX
 PD 09-APR-1998.
 PF 15-SEP-1997; 97WO-US16435.
 XX
 PR 03-OCT-1996; 96US-0725182.
 XX
 FA (LHW-) INWIR: INST CANCER EPS
 XX
 PI Chen Y, Drijfhout JW, Gure A, Jager E, Knuth A;
 PI Old LJ, Scaulian M;
 XX
 DR WPI: 1998-285417/25.
 XX
 PI New isolated cancer associated antigen - is used to develop products
 PI for the diagnosis and treatment of cancers and for monitoring cancer
 PI therapy
 XX
 PS Example 6; Page 12; 49pp; English.
 XX
 CC PCR primers AAV38567-68 were used to amplify nucleotide 271 to 599
 CC of DNA encoding a cancer associated antigen (AAV38566). The clone
 CC from which the DNA sequence is obtained is designated NY-ESO-1. The
 CC specification described a method for determining regression, progression

CC of onset of a cancerous condition, comprising monitoring a sample from a
 CC patient with the cancerous condition for a parameter selected from
 CC NY-ESO-1 protein, a peptide derived from NY-ESO-1 protein and cytotoxic
 CC T cells specific for the peptide and an MHC molecule with which it
 CC non-covalently complexes. Methods for the treatment of a cancerous
 CC condition are also described. The NY-ESO-1 protein and peptides derived
 CC from it can be used for diagnosis and treatment of cancers and to
 CC monitor the efficacy of a therapeutic regime.
 XX
 SQ Sequence 42 BP; 6 A; 12 C; 7 G; 7 T; 0 other;
 Query Match: 9.1%; Score 20; BB 19; length 42;
 Best Local Similarity: 100.0%; Prod. No. 0.52;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 UY 65 caagggacagacagcagcagc 84
 Db 32 caagggacagacagcagcagc 13
 RESULT 17
 AAD00159/c
 ID AAD00159 Standard; DNA; 42 BP.
 XX
 AC AAD00159;
 XX
 DI 41-JUL-2000 (first entry)
 DE LAGE-1 specific PCR primer, ESO 1B.
 XX
 KW CAMEL, CTL recognised Antigen on MELANOMA; Cytotoxic T lymphocytes (CTL).
 KW tumour-associated antigen; LAGE-1; NY-ESO-1; and tumour; melanoma; human;
 KW cancer; immunotherapy; immune response; PCR primer; ss.
 XX
 CS Homo sapiens.
 XX
 PN W729302 G34 AL.
 XX
 PD 27-APR-2000.
 XX
 PF 15-OCT-1999; 99WO-EP07832.
 XX
 PR 16-OCT-1998; 98EP-0119583.
 XX
 FA (B-EH) BOEHRINGER INGELHEIM INT GMBH.
 FA (UYH-) UNIV HOSPITAL LEIDEN.
 XX
 PI Schrier PJ, Aarnoudse CA, Heider K, Kiade G;
 XX
 DR WPI: 2000-33956/29.
 XX
 PI tumor-associated antigen useful for cancer immunotherapy; is encoded by
 PI the open reading frame of LAGE-1 (a tumor-specific antigen) cDNA.
 XX
 PS Example 6; Page 47; 74pp; English.
 XX
 CC The present DNA sequence is LAGE-1 specific PCR primer ESO 1B, used for
 CC RT-PCR of LAGE-1 cDNA. It is used to determine the expression of LAGE-1
 CC or CAMEL protein in tumour tissues derived from breast and lung cancer.
 CC The tumour-associated antigen, CAMEL (Cytotoxic T lymphocytes (CTL)-
 CC recognised Antigen on MELANOMA) is encoded by the open reading frame
 CC (ORF)-1 of LAGE-1 gene, a tumour-specific antigen. It shows strong
 CC homology with NY-ESO-1, a tumour-specific antigen. The tumour-associated
 CC antigen displayed on melanoma cells is recognised by cytotoxic T
 CC lymphocytes. CAMEL is expressed in tumour cell lines, tumour tissues
 CC (e.g. breast and lung) and in restricted number of healthy tissues.
 CC has anticancer activity. CAMEL tumour antigen and immunogenic peptides
 CC derived from it are useful for cancer immunotherapy. They have the
 CC potential to induce an immune response, by eliciting a CTL response. The
 CC DNA molecule is used for construction of recombinant or fusion proteins.
 XX
 SQ Sequence 32 BP; 6 A; 12 C; 7 G; 7 T; 0 other;

PR 23-APR-1999; 990S-0130510.
PR 23-APR-1999; 990S-0130891.
PR 26-APR-1999; 990S-0131449.
PR 30-APR-1999; 990S-0132048.
PR 04-MAY-1999; 990S-0132407.
PR 05-MAY-1999; 990S-0132484.
PR 06-MAY-1999; 990S-0132485.
PR 06-MAY-1999; 990S-0132486.
PR 07-MAY-1999; 990S-0132487.
PR 11-MAY-1999; 990S-0132863.
PR 14-MAY-1999; 990S-0134256.
PR 14-MAY-1999; 990S-0134218.
PR 14-MAY-1999; 990S-0134219.
PR 14-MAY-1999; 990S-0134221.
PR 14-MAY-1999; 990S-0134370.
PR 18-MAY-1999; 990S-0134768.
PR 19-MAY-1999; 990S-0134941.
PR 20-MAY-1999; 990S-0135124.
PR 21-MAY-1999; 990S-0135353.
PR 24-MAY-1999; 990S-0135629.
PR 25-MAY-1999; 990S-0136021.
PR 27-MAY-1999; 990S-0136392.
PR 28-MAY-1999; 990S-0136782.
PR 01-JUN-1999; 990S-0137222.
PR 03-JUN-1999; 990S-0137528.
PR 04-JUN-1999; 990S-0137502.
PR 07-JUN-1999; 990S-0137724.
PR 08-JUN-1999; 990S-0138094.
PR 10-JUN-1999; 990S-0138340.
PR 10-JUN-1999; 990S-0138847.
PR 14-JUN-1999; 990S-0139119.
PR 16-JUN-1999; 990S-0139452.
PR 16-JUN-1999; 990S-0139453.
PR 17-JUN-1999; 990S-0139492.
PR 18-JUN-1999; 990S-0139454.
PR 18-JUN-1999; 990S-0139455.
PR 18-JUN-1999; 990S-0139456.
PR 18-JUN-1999; 990S-0139457.
PR 18-JUN-1999; 990S-0139458.
PR 18-JUN-1999; 990S-0139459.
PR 18-JUN-1999; 990S-0139460.
PR 18-JUN-1999; 990S-0139461.
PR 18-JUN-1999; 990S-0139462.
PR 18-JUN-1999; 990S-0139463.
PR 18-JUN-1999; 990S-0139750.
PR 18-JUN-1999; 990S-0139763.
PR 21-JUN-1999; 990S-0139817.
PR 22-JUN-1999; 990S-0139899.
PR 23-JUN-1999; 990S-0140353.
PR 23-JUN-1999; 990S-0140354.
PR 24-JUN-1999; 990S-0140695.
PR 28-JUN-1999; 990S-0140823.
PR 29-JUN-1999; 990S-0140991.
PR 30-JUN-1999; 990S-0141287.
PR 01-JUL-1999; 990S-0141642.
PR 01-JUL-1999; 990S-0142154.
PR 02-JUL-1999; 990S-0142955.
PR 06-JUL-1999; 990S-0142390.
PR 08-JUL-1999; 990S-0142803.
PR 09-JUL-1999; 990S-0142920.
PR 12-JUL-1999; 990S-0142977.
PR 13-JUL-1999; 990S-0143342.
PR 14-JUL-1999; 990S-0143624.
PR 15-JUL-1999; 990S-0144005.
PR 16-JUL-1999; 990S-0144085.
PR 16-JUL-1999; 990S-0144086.
PR 19-JUL-1999; 990S-0144425.
PR 19-JUL-1999; 990S-0144431.
PR 19-JUL-1999; 990S-0144432.
PR 19-JUL-1999; 990S-0144433.
PR 19-JUL-1999; 990S-0144434.
PR 19-JUL-1999; 990S-0144435.
PR 20-JUL-1999; 990S-0144352.

PR 20-JUL-1999; 990S-0144642.
PR 20-JUL-1999; 990S-0144884.
PR 21-JUL-1999; 990S-0144814.
PR 21-JUL-1999; 990S-0145086.
PR 22-JUL-1999; 990S-0145088.
PR 22-JUL-1999; 990S-0145085.
PR 22-JUL-1999; 990S-0145087.
PR 22-JUL-1999; 990S-0145089.
PR 22-JUL-1999; 990S-0145192.
PR 23-JUL-1999; 990S-0145145.
PR 23-JUL-1999; 990S-0145218.
PR 23-JUL-1999; 990S-0145224.
PR 26-JUL-1999; 990S-0145276.
PR 27-JUL-1999; 990S-0145913.
PR 27-JUL-1999; 990S-0145918.
PR 27-JUL-1999; 990S-0145919.
PR 28-JUL-1999; 990S-0145951.
PR 02-AUG-1999; 990S-0146386.
PR 02-AUG-1999; 990S-0146388.
PR 02-AUG-1999; 990S-0146389.
PR 04-AUG-1999; 990S-0147038.
PR 04-AUG-1999; 990S-0147204.
PR 04-AUG-1999; 990S-0147302.
PR 05-AUG-1999; 990S-0147192.
PR 05-AUG-1999; 990S-0147260.
PR 06-AUG-1999; 990S-0147303.
PR 06-AUG-1999; 990S-0147416.
PR 09-AUG-1999; 990S-0147493.
PR 09-AUG-1999; 990S-0147945.
PR 10-AUG-1999; 990S-0148171.
PR 11-AUG-1999; 990S-0148319.
PR 12-AUG-1999; 990S-0148341.
PR 14-AUG-1999; 990S-0148565.
PR 14-AUG-1999; 990S-0148684.
PR 16-AUG-1999; 990S-0149368.
PR 17-AUG-1999; 990S-0149175.
PR 18-AUG-1999; 990S-0149426.
PR 20-AUG-1999; 990S-0149722.
PR 20-AUG-1999; 990S-0149723.
PR 20-AUG-1999; 990S-0149929.
PR 23-AUG-1999; 990S-0149902.
PR 23-AUG-1999; 990S-0149930.
PR 25-AUG-1999; 990S-0150566.
PR 26-AUG-1999; 990S-0150884.
PR 27-AUG-1999; 990S-0151065.
PR 27-AUG-1999; 990S-0151066.
PR 27-AUG-1999; 990S-0151080.
PR 30-AUG-1999; 990S-0151303.
PR 31-AUG-1999; 990S-0151438.
PR 01-SEP-1999; 990S-0151930.
PR 07-SEP-1999; 990S-0152363.
PR 10-SEP-1999; 990S-0153070.
PR 13-SEP-1999; 990S-0153758.
PR 15-SEP-1999; 990S-0154018.
PR 16-SEP-1999; 990S-0154039.
PR 20-SEP-1999; 990S-0154779.
PR 22-SEP-1999; 990S-0155139.
PR 23-SEP-1999; 990S-0155486.
PR 24-SEP-1999; 990S-0155659.
PR 28-SEP-1999; 990S-0156458.
PR 29-SEP-1999; 990S-0156596.
PR 04-OCT-1999; 990S-0157117.
PR 05-OCT-1999; 990S-0157753.
PR 06-OCT-1999; 990S-0157865.
PR 06-OCT-1999; 990S-0158029.
PR 08-OCT-1999; 990S-0158232.
PR 12-OCT-1999; 990S-0158469.
PR 13-OCT-1999; 990S-0159293.
PR 13-OCT-1999; 990S-0159294.
PR 14-OCT-1999; 990S-0159295.
PR 14-OCT-1999; 990S-0159329.
PR 14-OCT-1999; 990S-0159330.
PR 14-OCT-1999; 990S-0159331.

GenScan version 4.1,
Copyright (c) 1994-2000 Compugen Ltd.

OM nucleotide nucleotide search, using sw model

Run on: October 9, 2001, 14:49:00 : Search time 67.12 seconds
(without alignments)
671.27% BL11138 cell updat. 3/5.0

Title: US-09-341-829A_4_COPY_756_993
Perfect score: 238
Sequence: 1 cagcttctcattatgataa.....caagctgaatcattcga 238

Sequencing table: cd109a_NRG
Gapop 60.0 : Gapext 60.0

Searched: 424599 seqs, 9465562 residues

Word size: 0

Total number of hits satisfying chosen parameters: 649198

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post processing: Listing first 50 summaries

Database: Issued_patents_NA.*
1: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
2: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
3: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
4: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
5: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
6: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

Prod. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|------------------------------------|
| 1 | 248 | 100.0 | 1002 | 1 | US-08-791-495-4 Sequence 4, Appl |
| 2 | 243 | 97.9 | 755 | 1 | US-08-791-495-4 Sequence 6, Appl |
| 3 | 170 | 71.4 | 752 | 1 | US-08-725-1620-1 Sequence 1, Appl |
| 4 | 170 | 71.4 | 752 | 3 | US-09-014-156-1 Sequence 1, Appl |
| 5 | 170 | 71.4 | 752 | 4 | US-09-359-623-1 Sequence 1, Appl |
| 6 | 170 | 71.4 | 752 | 4 | US-09-062-422-1 Sequence 1, Appl |
| 7 | 170 | 71.4 | 752 | 4 | US-09-396-194-1 Sequence 1, Appl |
| 8 | 170 | 71.4 | 755 | 1 | US-08-791-495-4 Sequence 8, Appl |
| 9 | 24 | 16.1 | 217 | 1 | US-08-791-495-1 Sequence 1, Appl |
| 10 | 20 | 8.4 | 32 | 3 | US-09-105-907-10 Sequence 19, Appl |
| 11 | 20 | 8.4 | 32 | 4 | US-09-359-623-3 Sequence 5, Appl |
| 12 | 20 | 8.4 | 32 | 4 | US-09-992-422-3 Sequence 5, Appl |
| 13 | 19 | 8.0 | 19 | 1 | US-08-791-495-4 Sequence 5, Appl |
| 14 | 19 | 8.0 | 19 | 1 | US-08-791-495-11 Sequence 11, Appl |
| 15 | 19 | 8.0 | 19 | 4 | US-09-183-931-22 Sequence 22, Appl |
| 16 | 19 | 8.0 | 19 | 4 | US-09-183-931-24 Sequence 24, Appl |
| 17 | 19 | 8.0 | 1898 | 1 | US-08-342-411A-1 Sequence 1, Appl |
| 18 | 17 | 7.1 | 1416 | 2 | US-08-684-097-3 Sequence 5, Appl |
| 19 | 17 | 7.1 | 1464 | 1 | US-08-295-087-3 Sequence 5, Appl |
| 20 | 17 | 7.1 | 1464 | 1 | US-08-623-493-3 Sequence 5, Appl |
| 21 | 17 | 7.1 | 1464 | 2 | US-08-965-608-3 Sequence 5, Appl |
| 22 | 17 | 7.1 | 1464 | 4 | US-09-260-175-3 Sequence 5, Appl |
| 23 | 17 | 7.1 | 1688 | 2 | US-08-649-619B-2 Sequence 2, Appl |
| 24 | 17 | 7.1 | 1813 | 5 | US-08-3584-1283-3 Sequence 5, Appl |
| 25 | 17 | 7.1 | 1979 | 2 | US-08-649-619B-1 Sequence 1, Appl |
| 26 | 17 | 7.1 | 2030 | 1 | US-08-830-618-1 Sequence 1, Appl |
| 27 | 17 | 7.1 | 2030 | 1 | US-08-440-283-1 Sequence 1, Appl |

| | | | | | |
|----|----|-----|-------|---|------------------------------------|
| 28 | 17 | 7.1 | 2030 | 2 | US-08-640-238-1 Sequence 1, Appl |
| 29 | 17 | 7.1 | 2030 | 5 | US-08-955-13524-1 Sequence 1, Appl |
| 30 | 17 | 7.1 | 2030 | 5 | US-08-955-13524-1 Sequence 1, Appl |
| 31 | 16 | 6.7 | 1529 | 2 | US-08-720-975A-1 Sequence 1, Appl |
| 32 | 16 | 6.7 | 20303 | 1 | US-08-370-979B-6 Sequence 1, Appl |
| 33 | 16 | 6.7 | 26764 | 1 | US-08-370-979B-6 Sequence 1, Appl |
| 34 | 16 | 6.7 | 36741 | 4 | US-09-301-665-3 Sequence 5, Appl |
| 35 | 16 | 6.7 | 87350 | 4 | US-08-781-891-79 Sequence 1, Appl |
| 36 | 15 | 6.3 | 48 | 1 | US-08-183-114-5 Sequence 1, Appl |
| 37 | 15 | 6.3 | 711 | 2 | US-08-465-580-9 Sequence 5, Appl |
| 38 | 15 | 6.3 | 711 | 2 | US-08-480-478-8 Sequence 5, Appl |
| 39 | 15 | 6.3 | 711 | 2 | US-08-486-597-9 Sequence 5, Appl |
| 40 | 15 | 6.3 | 711 | 2 | US-08-486-599-9 Sequence 5, Appl |
| 41 | 15 | 6.3 | 711 | 2 | US-08-461-965-9 Sequence 5, Appl |
| 42 | 15 | 6.3 | 711 | 2 | US-08-426-110A-98 Sequence 5, Appl |
| 43 | 15 | 6.3 | 711 | 2 | US-08-634-641-9 Sequence 5, Appl |
| 44 | 15 | 6.3 | 711 | 3 | US-09-239-471-9 Sequence 5, Appl |
| 45 | 15 | 6.3 | 711 | 3 | US-09-239-472-9 Sequence 5, Appl |
| 46 | 15 | 6.3 | 711 | 3 | US-09-239-491-9 Sequence 5, Appl |
| 47 | 15 | 6.3 | 711 | 3 | US-08-809-455-9 Sequence 5, Appl |
| 48 | 15 | 6.3 | 711 | 3 | US-09-239-461-9 Sequence 5, Appl |
| 49 | 15 | 6.3 | 711 | 3 | US-09-239-448-9 Sequence 5, Appl |
| 50 | 15 | 6.3 | 784 | 1 | US-08-592-731-1 Sequence 1, Appl |

ALIGNMENTS

RESULT 1
US-08-791-495-4
Sequence 1, Appl 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Label No. 081519
SUBJECT: 500 At Lanth Amino Acid Synthase
ALTERNATIVE: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
APPLICANT: Genzyme Corporation
APPLICANT: Genzyme Corporation
APPLICANT: Genzyme Corporation
TITLE OF INVENTION: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: MIT, Greenfield & Sacks, P.O.
STREET: 500 At Lanth Amino Acid Synthase
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110
MEDIUM: RESEARCH: 100.0
MEDIUM TYPE: Floppy disk
OPERATOR: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
OPERATOR: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
SOFTWARE: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
CURRENT APPLICATION DATA:
APPLICANT: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
FILING DATE: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
CLASSIFICATION: 4.05
ATTORNEY/AGENT: 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
NAME: Van Amsterdam, John R.
REGISTRATION NUMBER: 49,212
REFERENCE/2-ACK NUMBER: 1341/7005
FILING NUMBER: 1341/7005
TELEPHONE: 617 720 4500
TELEFAX: 617 720 2441
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1002 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: Linear
MODEL TYPE: CDS
HYDROPHOBICITY: No
ANALYSIS: No
ORIGINAL SOURCE:

; CLASSIFICATION: 435


```

1 ANTI SENSE: NO
2 ORIGINAL SOURCE:
3 ORGANISM: HOMO SAPIENS
4 FEATURE:
5 NAME/KEY: CDS
6 LOCATION: 102..864
US 08 684 667 4

```

```

Query Match          7.1%  Score 17; 16 1; Length 144;
Best Local Similarity 100.0%; Prod. No. 5, 4;
Matches 17; Conserved 0; Mismatches 0; Indels 0; Gaps 0;

```

```

27 192 acttaccattttttttt 208
      |||||
16 1165 GTTAACTGTTGTTT 1149

```

```

RESULT 19
US 08 265 087 4/6
Sequence 4, Application US/08/66097
Patent No. 571615

```

```

1 GENERAL INFORMATION:
2 APPLICANT: SCOTT, PHILIP
3 TITLE OF INVENTION: Compositions and Methods for Use of
4 TITLE OF INVENTION: H.12 as an Adjunct
5 NUMBER OF SEQUENCES: 4
6 CORRESPONDENCE ADDRESS:
7 ADDRESSEE: Howson and Howson
8 STREET: Spring House
9 CITY: Pennsylvania
10 COUNTRY: USA
11 ZIP: 19477
12 COMPUTER READABLE FORM:
13 MEDIUM TYPE: Floppy disk
14 COMPUTER: IBM PC compatible
15 OPERATING SYSTEM: PC DOS/MS DOS
16 SOFTWARE: Patent In Release #1.0, Version #1.25
17 CURRENT APPLICATION DATA:
18 APPLICATION NUMBER: US/08/265,087
19 FILING DATE:
20 CLASSIFICATION: 424
21 PRIOR APPLICATION DATA:
22 APPLICATION NUMBER: US 08/229,282
23 FILING DATE: 18 APR 1994
24 ATTORNEY/AGENT INFORMATION:
25 NAME: Bak, Mary E.
26 REGISTRATION NUMBER: 41,215
27 REFERENCE/WORK NUMBER: WST/USA
28 TELECOMMUNICATION INFORMATION:
29 TELEPHONE: 215-540-9206
30 TELEFAX: 215-540-5818
31 INFORMATION FOR SEQ ID NO: 4:
32 SEQUENCE CHARACTERISTICS:
33 LENGTH: 164 base pairs
34 TYPE: nucleic acid
35 STRANDEDNESS: double
36 TOPOLOGY: unknown
37 MOLECULE TYPE: cDNA
38 FEATURE:
39 NAME/KEY: CDS
40 LOCATION: 101..869
US 08 265 087 4

```

```

Query Match          7.1%  Score 17; 16 1; Length 144;
Best Local Similarity 100.0%; Prod. No. 5, 4;
Matches 17; Conserved 0; Mismatches 0; Indels 0; Gaps 0;

```

```

27 192 acttaccattttttttt 208
      |||||
16 1165 GTTAACTGTTGTTT 1149

```

```

16 1165 GTTAACTGTTGTTT 1149
RESULT 20
US 08 621 494 4/6
Sequence 4, Application US/08/621494
Patent No. 5724127

```

```

1 GENERAL INFORMATION:
2 APPLICANT: SCOTT, PHILIP
3 TITLE OF INVENTION: Compositions and Methods for Use of
4 TITLE OF INVENTION: H.12 as an Adjunct
5 NUMBER OF SEQUENCES: 4
6 CORRESPONDENCE ADDRESS:
7 ADDRESSEE: Howson and Howson
8 STREET: Spring House Corporate Center, P.O. Box 4
9 CITY: Pennsylvania
10 STATE: Pennsylvania
11 COUNTRY: USA
12 ZIP: 19477
13 COMPUTER READABLE FORM:
14 MEDIUM TYPE: Floppy disk
15 COMPUTER: IBM PC compatible
16 OPERATING SYSTEM: PC DOS/MS DOS
17 SOFTWARE: Patent In Release #1.0, Version #1.25
18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER: US/08/621,494
20 FILING DATE: 25 MAR 1996
21 CLASSIFICATION: 424
22 PRIOR APPLICATION DATA:
23 APPLICATION NUMBER: US/08/229,282
24 FILING DATE: 17 JUN 1994
25 ATTORNEY/AGENT INFORMATION:
26 FILING DATE: 18 APR 1994
27 ATTORNEY/AGENT INFORMATION:
28 NAME: Bak, Mary E.
29 REGISTRATION NUMBER: 41,215
30 REFERENCE/WORK NUMBER: WST/USA
31 TELECOMMUNICATION INFORMATION:
32 TELEPHONE: 215-540-9206
33 TELEFAX: 215-540-5818
34 INFORMATION FOR SEQ ID NO: 4:
35 SEQUENCE CHARACTERISTICS:
36 LENGTH: 164 base pairs
37 TYPE: nucleic acid
38 STRANDEDNESS: double
39 TOPOLOGY: unknown
40 MOLECULE TYPE: cDNA
41 FEATURE:
42 NAME/KEY: CDS
43 LOCATION: 101..869
US 08 621 494 4

```

```

Query Match          7.1%  Score 17; 16 1; Length 144;
Best Local Similarity 100.0%; Prod. No. 5, 4;
Matches 17; Conserved 0; Mismatches 0; Indels 0; Gaps 0;

```

```

27 192 acttaccattttttttt 208
      |||||
16 1165 GTTAACTGTTGTTT 1149

```

```

RESULT 21
US 08 965 688 4/6
Sequence 4, Application US/08/965688
Patent No. 576549

```

```

1 GENERAL INFORMATION:
2 APPLICANT: SCOTT, PHILIP
3 TITLE OF INVENTION: Compositions and Methods for Use of
4 TITLE OF INVENTION: H.12 as an Adjunct
5 NUMBER OF SEQUENCES: 4

```

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Howson and Howson
STREET: Spring House Corporate Center, P.O. Box 457
CITY: Spring House
STATE: Pennsylvania
COUNTRY: USA
ZIP: 19477
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: pc-dos/ms-dos
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/665,689
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/621,404
FILING DATE: 25-MAR-1996
APPLICATION NUMBER: 08/265,097
FILING DATE: 17-JUN-1994
APPLICATION NUMBER: US 09/229,292
FILING DATE: 18-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Bak, Mary E.
REGISTRATION NUMBER: 31,215
REFERENCE/DOCKET NUMBER: WST51AUSA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-540-9206
TELEFAX: 215-540-5919
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1364 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: cns
LOCATION: 101..859
US-08-965-688-3

```

```

Query Match 7.1% Score 17; DB 2; Length 1364;
Best Local Similarity 100.0%; Prod. No. 5.3;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 192 gccacatattttttt 208
      |||||
DB 1165 GCTTACATCTTCTTC 1149

```

```

RESULT 22
US-09-260-174-3/5
Sequence 3: Application US/09/260,174
Patent No. 6168923
GENERAL INFORMATION:
APPLICANT: Scott, Phillip
Trinchieri, Giorgio
TITLE OF INVENTION: Compositions and Methods for Use of
IL-12 as an Adjuvant
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Howson and Howson
STREET: Spring House Corporate Center, P.O. Box 457
CITY: Spring House
STATE: Pennsylvania
COUNTRY: USA
ZIP: 19477
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS

```

```

SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: 08/621,404
FILING DATE: 25-MAR-1996
APPLICATION NUMBER: 08/265,097
FILING DATE: 17-JUN-1994
APPLICATION NUMBER: US 09/229,292
FILING DATE: 18-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Bak, Mary E.
REGISTRATION NUMBER: 31,215
REFERENCE/DOCKET NUMBER: WST51AUSA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-540-9206
TELEFAX: 215-540-5919
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1364 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: cns
LOCATION: 101..859
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-260-174-3

```

```

Query Match 7.1% Score 17; DB 4; Length 1364;
Best Local Similarity 100.0%; Prod. No. 5.3;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 192 gccacatattttttt 208
      |||||
DB 1165 GCTTACATCTTCTTC 1149

```

```

RESULT 23
US-08-649-6198-2
Sequence 2: Application US/086496198
Patent No. 5871916
GENERAL INFORMATION:
APPLICANT: NAKAMURA, YOSHIE
APPLICANT: SATO, HIROKO
TITLE OF INVENTION: EPOD PROTEIN AND DNA
TITLE OF INVENTION: ENCODING THE SAME
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLYNN, THIEL, BOUELL &
ADDRESSEE: TANIS, P.C.
STREET: 2026 Rambling Road
CITY: Kalamazoo
STATE: Michigan
COUNTRY: USA
ZIP: 49008-1699
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inches, 1.44 Mb
MEDIUM TYPE: Storage
OPERATING SYSTEM: MS-DOS 5.0
SOFTWARE: WordPerfect 5.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: 08/02,649,6198
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

```

```

1  APPLICATION NUMBER: JPK 226270
2  FILING DATE: 21 SEPT 1994
3  APPLICATION NUMBER: PCT/JP94/021000
4  FILING DATE: 21 SEPT 1995
5  ATTORNEY/AGENT INFORMATION:
6  NAME: Tetsuya F. Chapman
7  REGISTRATION NUMBER: 42549
8  REFERENCE/INVENTOR NUMBER: P09974 Case 144
9  TELECOMMUNICATION INFORMATION:
10 TELEPHONE: (616) 861-1156
11 TELEFAX: (616) 861-5465
12 INFORMATION FOR SEQ ID NO: 1:
13 SEQUENCE CHARACTERISTICS:
14 LENGTH: 1688
15 TYPE: nucleic acid
16 STRANDEDNESS: double
17 TOPOLOGY: linear
18 MOLECULE TYPE: cDNA to mRNA
19 ORIGINAL SOURCE:
20 ORGANISM: Homo sapiens
21 US 08 649 619B 2
22
23 Query Match
24 Best Local Similarity: 100.0%; Seq. No. 5, 42
25 Matches: 17; Conservation: 0; Mismatches: 0
26
27 85 conserved sequence 101
28
29 46 1111111111111111
30 263 CAGAGTGGAGGATGATC 279
31
32 RESULT 24
33 PCT 0894 12883 4
34 Sequence 4, Application PCT/JP94/12883
35 GENERAL INFORMATION:
36 TITLE OF INVENTION: GREGGATED NUCLEAR REPEATS, COME LETTERS AND
37 TITLE OF INVENTION: METHODS
38 NUMBER OF SEQUENCES: 46
39 CORRESPONDENCE ADDRESS:
40 ADDRESSEE: Arnold, White & Burke
41 STREET: P.O. Box 4433
42 CITY: Houston
43 STATE: Texas
44 COUNTRY: United States of America
45 ZIP: 77210
46 COMPUTER READABLE FORM:
47 MEDIUM TYPE: Floppy disk
48 COMPUTER: IBM PC compatible
49 OPERATING SYSTEM: PC DOS/MS-DOS/Windows
50 SOFTWARE: Patent In Release #1.0, Version
51 SOFTWARE: #1.25
52 CURRENT APPLICATION DATA:
53 APPLICATION NUMBER: PCT/JP94/12883
54 FILING DATE: Concurrently herewith
55 CLASSIFICATION:
56 PRIOR APPLICATION DATA:
57 APPLICATION NUMBER: US 08/152,363
58 FILING DATE: 10 NOV 1993
59 CLASSIFICATION:
60 ATTORNEY/AGENT INFORMATION:
61 NAME: BARBARA S. KIPHELL
62 REGISTRATION NUMBER: 43,928
63 REFERENCE/INVENTOR NUMBER: AP01014P
64 TELECOMMUNICATION INFORMATION:
65 TELEPHONE: (512) 418-5000
66 TELEFAX: (713) 789-2679
67 TELETYPE: 79 0924
68 INFORMATION FOR SEQ ID NO: 4:
69 SEQUENCE CHARACTERISTICS:
70 LENGTH: 1814 base pairs
71 TYPE: nucleic acid

```

```

1  STRANDEDNESS: single
2  TOPOLOGY: linear
3  MOLECULE TYPE: cDNA (genomic)
4  PCT 0894 12883 5
5
6 Query Match
7 Best Local Similarity: 100.0%; Seq. No. 5, 42
8 Matches: 17; Conservation: 0; Mismatches: 0
9
10 85 conserved sequence 101
11
12 46 1111111111111111
13 40 CAGAGTGGAGGATGATC 56
14
15 RESULT 25
16 US 08 649 619B 1
17 Sequence 1, Application US/08049619B
18 Patent No. 5871916
19 GENERAL INFORMATION:
20 TITLE OF INVENTION: GREGGATED NUCLEAR REPEATS, COME LETTERS AND
21 TITLE OF INVENTION: METHODS
22 NUMBER OF SEQUENCES: 11
23 CORRESPONDENCE ADDRESS:
24 ADDRESSEE: FLYNN, THELL, BOHLELL &
25 STREET: 2026 Randleman Road
26 CITY: Kalamazoo
27 STATE: Michigan
28 COUNTRY: USA
29 ZIP: 49008 1609
30 COMPUTER READABLE FORM:
31 MEDIUM TYPE: Diskette, 3.5 inches, 1.44 MB
32 MEDIUM TYPE: Storage
33 COMPUTER: IBM PC compatible
34 OPERATING SYSTEM: MS DOS 5.0
35 SOFTWARE: WordPerfect 5.0
36 CURRENT APPLICATION DATA:
37 APPLICATION NUMBER: PCT/JP94/01906
38 FILING DATE:
39 CLASSIFICATION: 435
40 PRIOR APPLICATION DATA:
41 APPLICATION NUMBER: JPK 226270
42 FILING DATE: 21 SEPT 1994
43 APPLICATION NUMBER: PCT/JP94/01909
44 FILING DATE: 21 SEPT 1995
45 ATTORNEY/AGENT INFORMATION:
46 NAME: Tetsuya F. Chapman
47 REGISTRATION NUMBER: 42549
48 REFERENCE/INVENTOR NUMBER: P09974 Case 144
49 TELECOMMUNICATION INFORMATION:
50 TELEPHONE: (616) 861-1156
51 TELEFAX: (616) 861-5465
52 INFORMATION FOR SEQ ID NO: 1:
53 SEQUENCE CHARACTERISTICS:
54 LENGTH: 1679
55 TYPE: nucleic acid
56 STRANDEDNESS: double
57 TOPOLOGY: linear
58 MOLECULE TYPE: cDNA to mRNA
59 ORIGINAL SOURCE:
60 ORGANISM: Homo sapiens
61 IMMEDIATE SOURCE:
62 LIBRARY: Human mammary gland cDNA
63 FEATURES:
64 NAME/KEY: cUS
65 LOCATION: 206,1191
66 IDENTIFICATION NUMBER: experimental examination
67 US 08 649 619B 1

```

Query Match 7.14; Score 17; DB 2; Length 1979;
Best Local Similarity 100.0%; Prod. No. 5.3;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 85 caactatgcccccttc 101
|||||
DB 264 CAGGCTGGGCGCCCTC 279

Search completed: October 9, 2001, 15:36:04
Job time: 2824 sec

GeneCore version 4.5
Copyright (c) 1993-2000 Compugen Ltd.

OM nucleole nucleole search, using sw model

Run on: October 9, 2001, 14:02:40 : Search time: 169.25 Seconds
(without alignments)
1643.074 Million cell updates/sec

Files: US-09-341-829a-4_copy_756_993

Perfect score: 248

Sequence: 1 cagtttctctatgattatgq.....aaagctgaatcagatccg 248

Scoring table: cd109.NUP

Gapop 60.0 : Gapext 60.0

Searched: 10228115 seqs, 4726426750 residues

Word size: 0

Total number of hits satisfying chosen parameters: 2046240

Minimum DB seq length: 0

Maximum DB seq length: 2400000000

Post processing: listing first 50 summaries

Database: EST

1: db_est11:
2: db_est2:
3: db_est3:
4: db_est4:
5: db_est5:
6: db_est6:
7: db_est7:
8: db_est8:
9: db_est9:
10: db_est10:
11: db_est11:
12: db_est12:
13: db_est13:
14: db_est14:
15: db_est15:
16: db_est16:
17: db_est17:
18: db_est18:
19: db_est19:
20: db_est20:
21: db_est21:
22: db_est22:
23: db_est23:
24: db_est24:
25: db_est25:
26: db_est26:
27: db_est27:
28: db_est28:
29: db_est29:
30: db_est30:
31: db_est31:
32: db_est32:
33: db_est33:
34: db_est34:
35: db_est35:
36: db_est36:
37: db_est37:
38: db_est38:
39: db_est39:
40: db_est40:
41: db_est41:
42: db_est42:
43: db_est43:
44: db_est44:
45: db_est45:
46: db_est46:
47: db_est47:
48: db_est48:
49: db_est49:
50: db_est50:

44: db_est44:
45: db_est45:
46: db_est46:
47: db_est47:
48: db_est48:
49: db_est49:
50: db_est50:
51: db_est51:
52: db_est52:
53: db_est53:
54: db_est54:
55: db_est55:
56: db_est56:
57: db_est57:
58: db_est58:
59: db_est59:
60: db_est60:
61: db_est61:
62: db_est62:
63: db_est63:
64: db_est64:
65: db_est65:
66: db_est66:
67: db_est67:
68: db_est68:
69: db_est69:
70: db_est70:
71: db_est71:
72: db_est72:
73: db_est73:
74: db_est74:
75: db_est75:
76: db_est76:
77: db_est77:
78: db_est78:
79: db_est79:
80: db_est80:
81: db_est81:
82: db_est82:
83: db_est83:
84: db_est84:
85: db_est85:
86: db_est86:
87: db_est87:
88: db_est88:
89: db_est89:
90: db_est90:
91: db_est91:
92: db_est92:
93: db_est93:
94: db_est94:
95: db_est95:
96: db_est96:
97: db_est97:
98: db_est98:
99: db_est99:
100: db_est100:
101: db_est101:
102: db_est102:
103: db_est103:
104: db_est104:
105: db_est105:
106: db_est106:
107: db_est107:
108: db_est108:
109: db_est109:
110: db_est110:
111: db_est111:
112: db_est112:
113: db_est113:
114: db_est114:
115: db_est115:
116: db_est116:

```

117: qb_est48:*
118: qb_est49:*
119: qb_est50:*
120: qb_est51:*
121: qb_est52:*
122: qb_est53:*
123: qb_est54:*
124: qb_est55:*
125: qb_est56:*
126: qb_est57:*
127: qb_est58:*
128: qb_est59:*
129: qb_est60:*
130: qb_est61:*
131: qb_est62:*
132: qb_est63:*
133: qb_est64:*
134: qb_est65:*
135: qb_est66:*
136: qb_est67:*
137: qb_est68:*
138: qb_est69:*
139: qb_est70:*
140: qb_est71:*
141: qb_est72:*
142: qb_est73:*
143: qb_est74:*
144: qb_est75:*
145: qb_est76:*
146: qb_est77:*
147: qb_est78:*
148: qb_est79:*
149: qb_est80:*
150: qb_est81:*
151: qb_est82:*
152: qb_est83:*
153: qb_est84:*
154: qb_est85:*
155: qb_est86:*
156: qb_est87:*
157: qb_est88:*
158: qb_est89:*
159: qb_est90:*
160: qb_est91:*
161: qb_est92:*
162: qb_est93:*
163: qb_est94:*
164: qb_est95:*
165: qb_est96:*
166: qb_est97:*
167: qb_est98:*
168: qb_est99:*
169: qb_est100:*
170: qb_est101:*
171: qb_est102:*
172: qb_est103:*
173: qb_est104:*
174: qb_est105:*
175: qb_est106:*
176: qb_est107:*
177: qb_est108:*
178: qb_est109:*
179: qb_est110:*
180: qb_est111:*
181: qb_est112:*
182: qb_est113:*
183: qb_est114:*
184: qb_est115:*
185: qb_est116:*
186: qb_est117:*
187: qb_est118:*
188: qb_est119:*
189: qb_est120:*
190: qb_est121:*
191: qb_est122:*
192: qb_est123:*
193: qb_est124:*
194: qb_est125:*
195: qb_est126:*
196: qb_est127:*
197: qb_est128:*
198: qb_est129:*
199: qb_est130:*
200: qb_est131:*
201: qb_est132:*
202: qb_est133:*
203: qb_est134:*
204: qb_est135:*
205: qb_est136:*
206: qb_est137:*
207: qb_est138:*
208: qb_est139:*
209: qb_est140:*
210: qb_est141:*
211: qb_est142:*
212: qb_est143:*
213: qb_est144:*
214: qb_est145:*
215: qb_est146:*
216: qb_est147:*
217: qb_est148:*
218: qb_est149:*
219: qb_est150:*
220: qb_est151:*
221: qb_est152:*
222: qb_est153:*
223: qb_est154:*
224: qb_est155:*
225: qb_est156:*
226: qb_est157:*
227: qb_est158:*
228: qb_est159:*
229: qb_est160:*
230: qb_est161:*
231: qb_est162:*
232: qb_est163:*
233: qb_est164:*
234: qb_est165:*
235: qb_est166:*
236: qb_est167:*
237: qb_est168:*
238: qb_est169:*
239: qb_est170:*
240: qb_est171:*
241: qb_est172:*
242: qb_est173:*
243: qb_est174:*
244: qb_est175:*
245: qb_est176:*
246: qb_est177:*
247: qb_est178:*
248: qb_est179:*
249: qb_est180:*
250: qb_est181:*
251: qb_est182:*
252: qb_est183:*
253: qb_est184:*
254: qb_est185:*
255: qb_est186:*
256: qb_est187:*
257: qb_est188:*
258: qb_est189:*

```

Pred. No. is the number of results predicted by GENE. The score is the score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

| REFERENCE | ARTICLE | JOURNAL | COMMENT |
|--------------------|----------------|--|--|
| 1 (bases 1 to 646) | HH 003 1219-22 | National Institutes of Health, Mammalian Genome Center | Unpublished (1999) |
| | HH 003 1219-22 | Unpublished (1999) | Contact: Robert Strausberg, Ph.D. |
| | HH 003 1219-22 | Unpublished (1999) | Email: cupes1@mail.nih.gov |
| | HH 003 1219-22 | Unpublished (1999) | Tissue Procurement: Alice |
| | HH 003 1219-22 | Unpublished (1999) | CHRA Library: Regional Center Biobank, The J.M.A.G.E. Genome Group (1.6b) |
| | HH 003 1219-22 | Unpublished (1999) | CHRA Sequencing by: Invertebrates, Inc. |
| | HH 003 1219-22 | Unpublished (1999) | Clone distribution: M60 clone distribution information can be found through the J.M.A.G.E. Consortium/HH 003 1219-22 |
| | HH 003 1219-22 | Unpublished (1999) | Plate: 129341, row: m, column: 16 |
| | HH 003 1219-22 | Unpublished (1999) | High quality sequence start: 27 |
| | HH 003 1219-22 | Unpublished (1999) | High quality sequence stop: 646 |
| | HH 003 1219-22 | Unpublished (1999) | Location/Qualifiers |
| | HH 003 1219-22 | Unpublished (1999) | 1: 646 |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapiens" |
| | HH 003 1219-22 | Unpublished (1999) | Zebrafish "Homo Sapi |

TITLE WashU-NCI Human EST Project
JOURNAL Unpublished (1997)
COMMENT Contact: Wilson RR
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8101, St. Louis, MO 63110
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@wustl.edu
 This clone is available royalty free through IMAGE. Contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Seq primer: -40ml3 fwd. RT from Amersham
 High quality sequence stop: 157.

FEATURES
 source
 1..281
 location/Qualifiers
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /db_xref="taxon:9606"
 /clone IMAGE:744128
 /clone.lib "Soares_test ig_NH1"
 /sex "male"
 /lab_host="DH10B"
 /poly_vector="pTZ19D par (Pharmacia) with a modified
 polylinker; Site 1: Not 1; Site 2: Eco RI; 1st strand cDNA
 was prepared from mRNA obtained from Clontech Laboratories
 , Inc., and primed with a Not I - cIpe(41) primer 15'
 TGTACCAATGTCGAATGGAGAGGCGGGCAATTTTTTTTTTTT 3'.
 Double-stranded cDNA was ligated to Eco RI adaptors
 (Pharmacia), digested with Not I and cloned into the Not I
 and Eco RI sites of the modified pTZ19D vector. Library
 went through one round of normalization to Cot5, and was
 constructed by Bento Soares and M. Fatima Bonaldo. "

BASE COUNT 71 a 71 c 79 g 60 t
ORIGIN

Query Match 71.4% Score 170; DB 10; Length 281;
 Best Local Similarity 99.5% Pred. No. 3.5e-81;
 Matches 229; Conservative 0; Mismatches 1; Gaps 0.

QY 1 caqcttccctgttcatatgacacgaatgctttctggcgtatctttacgtcagct 60
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 bb 247 CAGCTTCCTCCGTGATGTCGATGACGACGAGTGTCTCTGGGAGGAGTTCGTCACACT 188
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 QY 61 caactgagagagatctctgagcctgagcctgagcctgagcctgagcctgagcct 120
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 bb 187 GCTTCAGAGCAGACAGCGGTAAGACGACGCTGGGAGGCTTCTAGGACATGCTGCTG 128
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 QY 121 ctatgagatctctgagcctgagcctgagcctgagcctgagcctgagcctgagcct 180
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 bb 127 CTAGGAAATGCTCCATCATGAGGAGCAGTGTATGCTGGGAGGAGGAGGAGGAG 68
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 QY 181 gaagaagacacgttacatcttcttctctatgaaataaa 221
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 bb 67 GAGAGAGAGAGCTTACATGTTCTTCTCTATAGAAAAATAA 27
 ||||||||||||||||||||||||||||||||||||||||||||||||||||

RESULT 4
LOCUS A1218223.1 359 bp mRNA EST
DEFINITION IMAGE:1845484.3; similar to TR:P78458 (P78458) HOMO SAPIENS
ACCESSION A1218223.1 GI:7798049
VERSION EST.
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
REFERENCE 1 (bases 1 to 359)
AUTHORS "GATTTT" P. Soares et al. (1997) (1)
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index

JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
 Email: crumpis@mail.nih.gov
 This clone is available royalty-free through IMAGE. Contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert length: 793 Std Error: 0.00
 Seq primer: -400p from Gibco
 High quality sequence stop: 270.
 location/Qualifiers
 1..359
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone IMAGE:1845484
 /clone.lib "Soares NH1_LG02_S1"
 /lab_host="DH10B"
 /poly_vector="pTZ19D par (Pharmacia) with
 a modified polylinker; Site 1: Not 1; Site 2: Eco RI;
 equal amounts of plasmid DNA from three normalized
 libraries (retal lung NH1.19w, testis NH1.1, and brain
 NH1.30AL.20H) were mixed, and as circles were made in
 vitro. Following HAP purification, this DNA was used as
 tracer in a subtractive hybridization reaction. The final
 was PCR amplified cDNAs from pools of 5,000 clones made
 from the same 3 libraries. The pools consisted of
 1.4 A.C.E. clones 297480-302087, 62942-687249,
 726498-728711, and 729096-731499. Subtracted by Bento
 Soares and M. Fatima Bonaldo. "

BASE COUNT 90 a 94 c 109 g 66 t
ORIGIN

Query Match 71.4% Score 170; DB 17; Length 359;
 Best Local Similarity 99.5% Pred. No. 3.5e-81;
 Matches 229; Conservative 0; Mismatches 1; Gaps 0.

QY 1 caqcttccctgttcatatgacacgaatgctttctggcgtatctttacgtcagct 60
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 bb 236 CAGCTTCCTCCGTGATGTCGATGACGACGAGTGTCTCTGGGAGGAGTTCGTCACACT 177
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 QY 61 caactgagagagatctctgagcctgagcctgagcctgagcctgagcctgagcct 120
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 bb 176 GCTTCAGAGCAGACAGCGGTAAGACGACGCTGGGAGGCTTCTAGGACATGCTGCTG 117
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 QY 121 ctatgagatctctgagcctgagcctgagcctgagcctgagcctgagcctgagcct 180
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 bb 116 CTAGGAAATGCTCCATCATGAGGAGCAGTGTATGCTGGGAGGAGGAGGAGGAG 57
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 QY 181 gaagaagacacgttacatcttcttctctatgaaataaa 221
 ||||||||||||||||||||||||||||||||||||||||||||||||||||
 bb 56 GAGAGAGAGAGCTTACATGTTCTTCTCTATAGAAAAATAA 16
 ||||||||||||||||||||||||||||||||||||||||||||||||||||

RESULT 4
LOCUS A1554954 700 bp mRNA EST
DEFINITION A1554954.1 H1.10.06.P12 Homo sapiens cDNA from cDNA library
 prime, mRNA sequence.
ACCESSION A1554954
VERSION A1554954.1 GI:12894271
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
REFERENCE 1 (bases 1 to 700)
AUTHORS Li, W.B., Grubert, C., Jessee, J., and Polayes, P.
TITLE Full length cDNA libraries and normalization.
JOURNAL Unpublished (2001)
COMMENT Contact: Microscope
 National de Sequencage
 Genomique, UVSQ, 91190, France
 Email: seq@microscope.uvsq.fr, Web: www.microscope.uvsq.fr
FEATURES location/Qualifiers

Query Match 8.0%; Score 19; DB 154; Length 627;
 Best Local Similarity 100.0%; Pred. No. 20;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 201 ttatttctatataaata 219
 ||||| ||||| ||||| |||||
 DB 116 TTGTTCTGTGAGAAATA 134

RESULT 15
 A0004894
 LOCUS A0004894 745 bp mRNA EST 19 JAN 1999
 DEFINITION A0004894 Bombyx mori P50(Daizo) Bombyx mori cDNA clone #28713,
 mRNA sequence.
 ACCESSION A0004894
 VERSION A0004894.1 GI:4161265
 KEYWORDS EST.
 SOURCE domestic silkworm.
 ORGANISM Bombyx mori
 Eukaryota; Metazoa; Arthropoda; Insecta;
 Pterygota; Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia
 ; Homopteroidea; Bombycoidea; Bombyx.
 REFERENCE 1 (bases 1 to 735)
 AUTHORS Mita K., Matsumoto M., Shimada T., Okano F. and Rao J.L.S.
 TITLE Establishment of cDNA database of Bombyx mori
 JOURNAL Unpublished (1999)
 COMMENT Contact: Mita K
 Genome Research Group
 National Institute of Radiological Sciences
 Anagawa 4-9-1, Inage, Chiba 263-8555, Japan
 Email: knira@irs.ri.go.jp
 PROJECT "CREST" project by JST.

FEATURES

source
 1..735
 /organism="Bombyx mori"
 /strain="P50(Daizo)"
 /db_xref="taxon:7091"
 /clone="ws00714"
 /clone.lib="Bombyx mori P50(Daizo)"
 BASE COUNT 219 a 122 c 110 g 277 t

Query Match 8.0%; Score 19; DB 106; Length 745;
 Best Local Similarity 100.0%; Pred. No. 20;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 222 ttatttctatataaata 220
 ||||| ||||| ||||| |||||
 DB 154 TTGTTCTGTGAGAAATA 171

RESULT 16
 BE794639
 LOCUS BE794639 906 bp mRNA EST 29 SEP 2000
 DEFINITION G0158870.F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942399 5',
 mRNA sequence.
 ACCESSION BE794639
 VERSION BE794639.1 GI:10214746
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 REFERENCE 1 (bases 1 to 906)
 AUTHORS NIH-MGC http://mimac.scripps.edu/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: rupa@bbs.f-mail.nih.gov
 Tissue Procurement: DCT/DIP

cDNA Library Preparation: Ling Hong/Rubin Laboratory
 cDNA Library Arrayed by: the L.M.A.G.E. Consortium (L.M.R.)
 DNA Sequencing by: Mocyte Genomics, Inc.
 Clone Distribution: Mocyte clone distribution information can be
 found through the L.M.A.G.E. Consortium/CLIB at: imager.mimac.com
 Plate: LHC797 row: c column: 02
 High quality sequence stop: 765,
 Location/Qualifiers
 1..906
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:3942899"
 /clone.lib="NIH_MGC_7"
 /accession="smal1 cell carcinoma"
 /cell.line="M553"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: lung; Vector: pOTH7; Size: 1.5 kb; Strategy:
 Exon: cDNA made by oligo dI priming. Directly
 cloned into EcoRI/XhoI sites using the following
 adaptor: GGCAAGAGG. Size selected. 0.9 kb. 1.1 kb. 1.3 kb.
 Insert size 1.8 kb. Library constructed by Ling Hong in
 the laboratory of Gerald M. Rubin (Rubin Laboratory, 311
 California, Berkeley) using ZAP-cDNA Synthesis Kit
 (Stratagene) and Superscript II RT (Life Technologies)."
 BASE COUNT 158 a 254 c 278 g 216 t

FEATURES

Query Match 8.0%; Score 19; DB 140; Length 627;
 Best Local Similarity 100.0%; Pred. No. 20;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 49 tttctctacacacacacacac 67
 ||||| ||||| ||||| |||||
 DB 677 TTGGTCAAGATTCACAG 695

FEATURES

RESULT 17
 BE100728/c
 LOCUS BE100728/c 248 bp mRNA EST 15 JUN 2000
 DEFINITION BE100728/c 0.09-0.0135 01-01-01 Ratius norvegicus cDNA clone
 BE100728/c 0.0135, mRNA sequence.
 ACCESSION BE100728
 VERSION BE100728.1 GI:8492591
 KEYWORDS EST.
 SOURCE Norway rat.
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.

REFERENCE

1 (bases 1 to 248)
 AUTHORS Benabib, H.P., Leuninger, J. and Soares, M.B.
 TITLE Normalization and subtraction: two approaches to facilitate gene
 discovery

JOURNAL

Genome Res. 6 (9), 791-806 (1996)

MEDLINE

9704477

COMMENT

Contact: Soares, M.B.
 Program for Rat Gene Discovery and Mapping
 University of Iowa
 451 Eckstein Medical Research Building Iowa City, IA 52242 USA
 Tel: 319 335 8250
 Fax: 319 335 9565
 Email: soares@blue.wood.hawaii.edu
 The sequence contained in clipart track that was provided in the
 oligonucleotide that was used to prime the synthesis of first
 strand cDNA and therefore this may represent a template for the
 tail, the sequence tag present in the cDNA is given the Nucleotide
 and the position of the tag served to identify it as a cDNA. The
 normalized AV canal at 16.5 dpc library cDNA (Library Preparation:
 M.B. Soares Lab Clone distribution clones will be available
 through Research Genetics (www.resgen.com)
 Seq primer: M1 Forward
 PCOVA Yes.

[illegible]

| | | | | | |
|--|--|--|--|--|--|
| TITLE | | | | | |
| The WashU-BHMI Mouse EST Project | | | | | |
| CONTACT : Maria M/Mouse-EST project | | | | | |
| WashU-BHMI Mouse-EST project | | | | | |
| Washington University School of Medicine | | | | | |
| 4444 Forest Park Parkway, Box 9700, St. Louis, MO 63108 | | | | | |
| Tel.: 314 286 1800 | | | | | |
| Fax: 314 286 1810 | | | | | |
| Email: mouseest@watson.wustl.edu | | | | | |
| This clone is available royalty free through EMBL - contact the IMAGE Consortium (infoimage@embl.gov) for further information. | | | | | |
| URL : 590906 | | | | | |
| FEATURES | | | | | |
| Location/Qualities | | | | | |
| 1: cDNA | | | | | |
| Zotarium "Mus musculus" | | | | | |
| Zotarium "Plebe 1/23" | | | | | |
| Zotarium "Tayntonova" | | | | | |
| Zotarium "IMAGE988660" | | | | | |
| Zotarium "Knowles Souter mouse blastocyst B1" | | | | | |
| Zotarium type "blastocyst" | | | | | |
| Zotarium stage "embryo (pre-implantation)" | | | | | |
| Zotarium host "DH10B" | | | | | |
| Zotarium vector "pSP6B1; Site1; NotI;" | | | | | |
| Site2: SalII; cloned independently from mRNA prepared from 800 blastocysts. Primer: SalI(41); 5' GCGGACAGCCGACGGGTTTTTTTCTTTTTC; CUNAS were cloned into the NotI/SalI site of a pSP6B1 vector (Lite technologies). Two different size selections: B1 (larger inserts) and B4." | | | | | |
| BASE COUNT | | | | | |
| ORIGIN | | | | | |
| Query Match | | | | | |
| Best local similarity 100.0%; Score: 18; DB: 10; Length: 496; | | | | | |
| Matches: 18; Conservative: 0; Mismatch: 0; Indels: 0; Gaps: 0; | | | | | |
| SEQ | | | | | |
| 199 cgttttcttcgataaaa 216 | | | | | |
| | | | | | |
| 64 c c c c c | | | | | |
| RESULT | | | | | |
| AA#2673 499 bp mRNA EST 27 MAY 1998 | | | | | |
| cd2496.1 300's mouse hybridization BH5; Mus musculus CGA clone | | | | | |
| IMAGE:1617692 5'; mRNA sequence. | | | | | |
| AA#2674 | | | | | |
| AA#2673.1 61:4161442 | | | | | |
| EST: | | | | | |
| Mus musculus | | | | | |
| Embryonic; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | | | | |
| Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus; | | | | | |
| 1 (bases 1 to 499) | | | | | |
| Maria M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubouche, J., | | | | | |
| Grisei, S., Kucaba, T., Lucy, M., Leach, M., Hartshorn, Morris, M., | | | | | |
| Schellinger, K., Stepien, M., Tanaka, F., Underwood, K., Moore, R., | | | | | |
| Trevisan, B., Wyllie, T., Lennon, G., Soares, B., Wilson, R., and | | | | | |
| waterston, R. | | | | | |
| The WashU-BHMI Mouse EST Project | | | | | |
| Unpublished (1996) | | | | | |
| CONTACT : Maria M/Mouse-EST project | | | | | |
| WashU-BHMI Mouse-EST project | | | | | |
| Washington University School of Medicine | | | | | |
| 4444 Forest Park Parkway, Box 9700, St. Louis, Missouri | | | | | |
| Tel.: 314 286 1800 | | | | | |
| Fax: 314 286 1810 | | | | | |
| Email: mouseest@watson.wustl.edu | | | | | |
| This clone is available royalty free through EMBL - contact the | | | | | |
| IMAGE Consortium (infoimage@embl.gov) for further information. | | | | | |
| URL : 590906 | | | | | |
| Seq primer : 2803 to 52 El From Arabidhan | | | | | |

